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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/670,787

09/26/2003

Seung Jun Han

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4358

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7590

10/27/2006

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EXAMINER

HAN, JASON

ART UNIT

PAPER NUMBER

2875

DATE MAILED: 10/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/670,787

Applicant(s)

HAN ET AL.

Examiner

Jason M. Han

Art Unit

2875

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 August 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Pages 4-5, filed August 9, 2006, with respect to the rejection(s) of claim(s) 1-7 under 35 U.S.C 102(e) and 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Nishiyama et al. (JP 2000-162593 A).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishiyama (JP 2000-162593 A).
3. With regards to Claim 1, Nishiyama discloses a backlight unit including:
- A lamp housing [Drawing 4: (500)]; and
 - A plurality of lamps [Drawing 4: (35)] respectively having a low voltage electrode [Drawing 4: (35d)] and a high voltage electrode [Drawing 4: (35c)] and arranged in the lamp housing so that the low voltage and the high voltage electrodes are alternately disposed in one side of the lamp housing.

Art Unit: 2875

4. With regards to Claim 2, Nishiyama discloses the backlight unit further incorporating a diffusion plate [Drawing 8b: (60); Drawing 13: (50)] located on the lamp housing; and an optical sheet [Drawing 13: (51 or 52)] located on the diffusion plate.

5. With regards to Claim 3, Nishiyama discloses the low voltage [Drawing 4: (35d)] and high voltage [Drawing 4: (35c)] electrodes respectively arranged in a zigzag fashion.

6. With regards to Claim 4, Nishiyama discloses the low voltage [Figure 4: (35d)] and high voltage [Drawing 4: (35c)] electrodes being alternately arranged by a number greater than 2 in one side of the lamp housing.

7. Claims 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishiyama (JP 2000-162593 A).

8. With regards to Claim 5, Nishiyama discloses a liquid crystal display including:

- A back light unit including:
 - = A lamp housing [Drawing 4: (500)];
 - = A plurality of lamps [Drawing 4: (35)] respectively having a low voltage electrode [Drawing 4: (35d)] and a high voltage electrode [Drawing 4: (35c)] and arranged in the lamp housing so that the low voltage and the high voltage electrodes are alternately disposed in one side of the lamp housing;
 - = A diffusion plate [Drawing 8b: (60); Drawing 13: (50)] located on the lamp housing; and

Art Unit: 2875

- = An optical sheet [Drawing 13: (51 or 52)] located on the diffusion plate;
and
 - A liquid crystal panel [Drawing 2: (1); Drawing 13: (400)] disposed on the back light unit and having a plurality of liquid crystal cells arranged in matrix form [Detailed Description: Paragraph 44].
9. With regards to Claim 6, Nishiyama discloses the low voltage [Drawing 4: (35d)] and high voltage [Drawing 4: (35c)] electrodes respectively arranged in a zigzag fashion.
10. With regards to Claim 7, Nishiyama discloses the low voltage [Figure 4: (35d)] and high voltage [Drawing 4: (35c)] electrodes being alternately arranged by a number greater than 2 in one side of the lamp housing.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Han whose telephone number is (571) 272-2207. The examiner can normally be reached on 8:00am-5:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2875

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jason M Han
Examiner
Art Unit 2875

JMH (10/25/2006)



Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800